





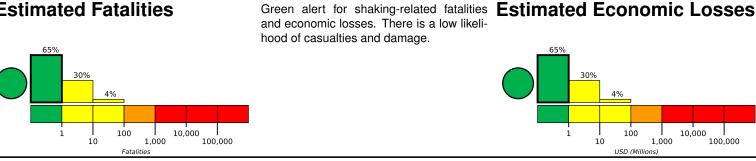
PAGER Version 7

Created: 5 days, 17 hours after earthquake

M 4.2, 29km SE of Markleeville, CA Origin Time: 2021-07-08 23:58:53 UTC (Thu 16:58:53 local) Location: 38.5370° N 119.5240° W Depth: 5.8 km

Estimated Fatalities 10,000 100,000 1,000





Estimated Population Exposed to Earthquake Shaking

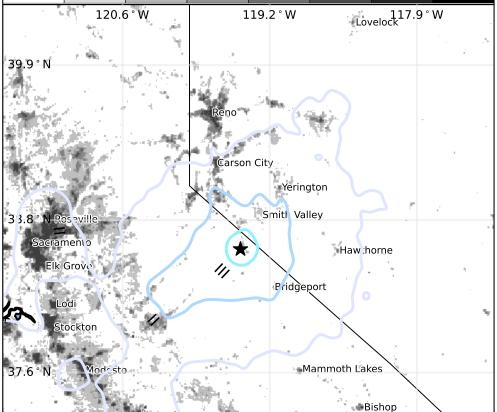
ESTIMATED POPULATION EXPOSURE (k=x1000)		3,043k*	3,399k	1k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan 5000

. Big Pine



PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
2003-12-22	352	6.6	VI(8k)	2
1980-01-24	213	5.8	VII(35k)	1
1989-10-18	253	6.9	VIII(109k)	62

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org				
MMI	City	Population		
III	Smith Valley	2k		
Ш	Smith	1k		
Ш	Arnold	4k		
Ш	Bridgeport	1k		
Ш	Gardnerville Ranchos	11k		
Ш	Gardnerville	6k		
II	Sacramento	466k		
II	Carson City	55k		
II	Reno	225k		
1	Stockton	292k		
1	Fresno	495k		

bold cities appear on map.

(k = x1000)